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PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Mikal E. Saltveit et al.**

Serial No.: **09/964,992**

Filed: **September 26, 2001**

For: **Characterization of Phenylalanine
Ammonia-lyase (PAL) Gene in Wounded
Lettuce Tissue**

)
) Examiner: Not Yet Assigned
)
) Art Unit: 1645
)
) MARKED-UP VERSION TO SHOW
) CHANGES MADE
)

Assistant Commissioner for Patents
Washington, D.C. 20231

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Sir:

This marked-up specification (section 'Brief Description of the Drawings', page 5 lines 1-2) accompanies the attached preliminary amendment for the above-identified patent application and is submitted on or before December 26, 2001.

In the Specification

Figure 9: Sequence comparison of LsPAL1 (SEQ ID NO:1) to sunflower PAL (SEQ ID NO:5) demonstrating the close sequence homology.

CERTIFICATE OF FIRST CLASS MAILING

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Signature: Robert J. Patterson

Printed Name: Robert J. Patterson

Mikal E. Saltveit *et al.*
Serial No. 09/964,992

Respectfully submitted,

Date: December 10, 2001

Barbara Rae Venter

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PATENT

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Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

This red sketch of Figure 9 accompanies the attached preliminary amendment for the above-identified patent application and is submitted on or before December 26, 2001.

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Signature: Robert J. Patterson

Printed Name

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Mikal E. Saltveit *et al.*
Serial No. 09/964,992

Respectfully submitted,

Date: December 14, 2001

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+			
1	MENGTHVNGSANGFCIKDPLNWGVAAEALTGSHLDEVKKMVGEFRKPVVK	Sunflower	
1	MENGTHVNGVNVNELCIKDPLNWGVAAEALTGSHLDEVKKMVAEFRKPVVK	LsPAL1	
51	LGGETLTVSQVAGISAAAGDGNMVKVELSEAAARAGVKASSDWVMESMNKGT	Sunflower	
51	LGGETLTVSQVAGIAAANDSDTVKVELSEAAARAGVKASSDWVMESMNKGT	LsPAL1	
101	DSYGVTGFGATSHRRTKNGGALQKELIRFLNAGIFGNGTESSTLPHSA	Sunflower	
101	DSYGVTGFGATSHRRTKQGGALQKELIRFLNAGIFGNGTETSHTLPHSA	LsPAL1	
151	TRAAMIVRINTLLQGYSGIRFEILEAITKFLNNNITPCLPLRGTITASGD	Sunflower	
151	TRAAMIVRINTLLQGYSGIRFEILEAITKFLNNNITPCLPLRGTITASGD	LsPAL1	
201	LVPLSYIAGLLTGRPNASKAVGPAGEVLNAESAFQAQAVEGGFFELQPKEG	Sunflower	
201	LVPLSYIAGLLTGRPNASKAVGPTGEVLNAEKAFAAAGVEGGFFELQPKEG	LsPAL1	
251	LALVNGTAVGSGMASMVLFEBANVLALLSEVLSAIFAEVMQKPEFTDHLT	Sunflower	
251	LALVNGTAVGSGMASMVLF DANVLALLSEVLSAIFAEVMQKPEFTDHLT	LsPAL1	
301	HKLKHHPGQIEAAAIMEYILDGSDYVKAQKVHEMDPLQPKQDRYALRT	Sunflower	
301	HKLKHHPGQIEAAAIMEYILDGSDYVKAQKVHEMDPLQPKQDRYALRT	LsPAL1	
351	SPQWLGPQIEVIRSATKMIEREINSVNDNPLIDVSRNKALHGGNFQGTPI	Sunflower	
351	SPQWLGPQIEVIRSSTKMIEREINSVNDNPLIDVSRNKALHGGNFQGTPI	LsPAL1	
401	GVSMNDTRLAIAAIGKVTIAQFSELVNDFYNNGLPSHLSGGRNPSLDSGF	Sunflower	
401	GVSMNDTRLAIAAIGKLMFAQFSELVNDFYNNGLPSNLSGGRNPSLDYGF	LsPAL1	
451	KGGEIAMASYCSELQFLANPVTNHVQSAEQHNQDVNSLGLISARKTAEAV	Sunflower	
451	KGGEIAMASYCSELQFLANPVTNHVQSAEQHNQDVNSLGLISARKTAEAV	LsPAL1	
501	DILKLSSTYLVALCQSIDLRHLEENMKSTVKNTVSQVAKKVLTMGVNGE	Sunflower	
501	DILKLSSTYLVALCQSIDLRHLEENMKSTVKNTVSQVAKKVLTMGVNGE	LsPAL1	
551	LHPSRFCEKDLLRVVDREYVFAYADDPCLTTYPLMQKLRQVLVDHALNNG	Sunflower	
551	LHPSRFCEKDLLRVVDREYVFAYIDDVCSGTYPLMQKLRQVLVDHALNNG	LsPAL1	
601	ETEKNTSIFQKIATFEDELKAILPKEVESVRVAFENGTM SIPNRIKAC	Sunflower	
601	ETEKNTSIFQKIATFEDELKVLLPKEVEGVRTAYENDTSLIPNRIKAC	LsPAL1	
651	RSYPLYRFVREELGGA	Sunflower	
651	RSYPLYRFVREELGRGFLTGEKVTSPGEEFDRVFTAMCKGQIIDPLLECL	LsPAL1	
701	GGWNGEPLPIC	LsPAL1	

Figure 9

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